

NOTES ON THE GENUS DELOSPERMA (MESEMBRIEAE)

M. LAVIS

Delosperma kofleri Lavis sp. nov. (*Angustifolia*).—Planta erecta, glabra, 22 cm. diam.; rami primarii lignosi brunnei, ad 13 cm. longi, ad 2.5 mm. diam., internodiis 4—20 mm. longis; ramuli ascendentes vel fere patentes, superne interdum leviter incurvi, saepe pallidi, 2—10 cm. longi, 0.75—1.5 mm. diam. internodiis 4—18 mm. longis; folia ascendentia vel fere erecta, saepe subfalcata supra visa plana vel leviter concava, linearia, superne leviter angustata, acuta, dorso rotundo, viridia, lateraliter visa saepissime acuta, 4—15 mm. longa, medio 2—3 mm. lato diametroque; flores solitarii, ca. 1 cm. diam.; receptaculum obconicum, 3 mm. longum, 4 mm. diam.; pedunculi 3—4 mm. longi; sepala 5, abrupte acuta vel acuta, 3—5, vel extima 5—6 mm., interiora marginata, ad 3 mm., longa, basi 1—1.5 mm. lata; petala ca 2-seriata, infra medium inferne leviter angustata, apice rotundo, alba, 5—6 mm. longa, 1 mm. lata vel parum ultra; staminodia nulla; filamenta 3—4-seriata, epapillata alba, ad 3 mm. longa, antheris pollineque albidis; stigmata anguste subulata, 1.75 mm. longa cum cauda 0.75 mm. longa.

Basutoland: Roma Mission, *C. Kofler*. NBG 94/63. Fl. Nov. 1964.

NOTE:—The following 9 species are described from dried material and drawings in colour made from living specimens by Miss B. O. Carter.

Delosperma clavipes Lavis sp. nov. (*Angustifolia*).—Planta caespitosa, glabra, ramos ascendentes florentes ad 9.5 cm. elongatos emittens; folia primum ascendentia, deinde patentia demum omnino recurva, supra linearia, inferne superneque leviter angustata, canaliculata, dorso rotundo, ad 2.3 cm. longa, 3—4 mm. lata, 3 mm. diam.; flores solitarii vel 2-ternati, 2—5 cm. diam.; pedunculi 4—20 mm. longi; receptaculum clavatum, 5—8 mm. longum, 3—4 mm. diam.; sepala 5, inaequilonga, e prope basim superne leviter angustata, obtusa vel intima subacuta, 5—12 mm. longa, basi 2.5—4 mm. lata; petala 3-seriata, e bene supra medium angustata, interiora vel omnia emarginata, purpureo rosea, ad 1 cm. longa, ad 1 mm. lata; staminodia subpetaloidea rosea, apice leviter recurvo, ad 6 mm. longa; filamenta 3-seriata, pallide rosea, ad 5 mm. longa, intima in medio inconspicue papillata, antheris pollineque saturate luteis; glandulae distantes humiles, saturate viridibus; ovarium circa

marginem planum, lobis profunde compressis, ad 2 mm. elevatis; stigmata inferne anguste subulata, longe attenuata, pallide lutea, 3·5 mm. longa, cauda subnulla.

ORANGE FREE STATE: Ficksburg, *E. E. Galpin*. NBG 2623/34. Fl. Sept. 1935.

Delosperma ficksbergense Lavis sp. nov. (*Angustifolia*).—Planta I visa, caule ad 3·5 mm. diam.; partes herbaceae sat conspicue papillatae, papillis setiferis, setis longis; rami decumbentes, ad 3 mm. diam., ultimi floriferi graciles, ad 20 cm. longi, internodiis saepius ad 1 cm. longis; folia ascendentia vel patentia, supra fere plana, obtusa, dorso rotundo, ad 2·2 cm. longa, ad 5 mm. lata vel ultra in umbrosis, 1—4 mm. diam.; flores 1—3-nati, 1·5—1·7 cm. diam.; pedunculi 2—4 mm., vel fructiferi ad 1·3 cm., longi; receptaculum obconicum papillatum, papillis deflexis, 3 mm. longum, 4 mm. diam.; sepala 5, obtusa, 3·5—5 mm. longa, basi ad 2 mm. lata; petala 3-seriata, parum infra apicem inferne angustata, alba, ad 8 mm. longa, 1 mm. vel parum ultra lata; staminodia acuminatissima alba, 5 mm. longa; filamenta 3—4-seriata, alba, seriebus interioribus 2 prope medium papillatis, antheris pollineque luteis; ovarii lobi stellate patentes, glandulas attingentes, obtuse compressi, ad 1·25 mm. elevati; stigmata 5, anguste subulata, ca. 2 mm. longa cum cauda 0·5 mm. longa.

Orange Free State: in dit. Ficksburg; "on the Farm Westbury, in rocks on summit of ridge, alt. 5,500 ft.; white and pink-flowered forms found within 50 yards of each other, the pink very rare." Oct. 1934, *E. E. Galpin*. Bolus Herb. 27820.

Delosperma knox-daviesii Lavis sp. nov. (*Angustifolia*).—Planta unica visa, glabra, laxe ramosa, ca. 9 cm. alta; rami 8·5—9 cm. longi; folia ascendentia vel patentia, demum recurvata, subteretia, minute papillata, supra plana, obtusa, prope apicem angustata, ad 3 cm. longa, 5—6 mm. lata, ad 4 mm. diam.; flores solitarii, ad 3·3 cm. diam.; pedunculi 1·6—2·5 cm. longi; receptaculum obconicum, 5 mm. longum, 7 mm. diam.; sepala 5, valde inaequalia, exteriora obtusa, 8—9 mm. longa, basi 3—5 mm. lata, interiora 3—4 mm. longa lataque; petala 4-seriata, seriebus 3 exterioribus emarginatis, e parum supra medium angustata, purpureo rosea, 1—5 cm. longa, ad 3 mm. lata, intima acuta, 8 mm. longa, 0·75 mm. lata; staminodia ad stamina adpressa eaque leviter excedentia; filamenta 2—3-seriata, intima parum infra medium papillata, ad 3—5 mm. longa, antheris pollineque pallide luteis; glandulae conspicuae, saturate virides, subdistantes; ovarii lobi stellate patentes, ad 1 mm. elevati, glandulas attingentes; stigmata 5, anguste subulata, longe attenuata, stamina leviter excedentia, ad 4 mm. longa, cauda brevissima.

TRANSVAAL: Johannesburg, *C. N. Knox-Davies*. NBG 2852/34. Fl. Maio. 1935.

Delosperma lootsborgense, Lavis sp. nov. (*Angustifolia*).—Rami 2 visi, pallide brunnei, 8.5—13.5 cm. longi, 3 mm. diam., internodiis 1—2.5 cm. longis; partes herbaceae virides; folia erecta vel ascendentia, demum patentia, dorso rotundo, lateraliter visa obtusa, prope apicem leviter angustata, papillata, papillis setiferis, setis ascendentibus, 1.2—2.2 cm. longa, 2—3 mm. diam.; flores ad 2.5 cm. diam.; pedunculi 1.1—2 cm. longi; receptaculum obconicum, medio leviter constricto, 1 cm. longum, 8 mm. diam.; sepala 5, semiteretia, 4—6 mm. longa, interiora marginata; petala 3-seriata supra medium inferne leviter angustata, obtusa, roseo purpurea 1—1.3 cm. longa, 1—1.5 mm. lata; staminodia erecta acuminata rosea, stamina subae-quantia, 5 mm. longa; filamenta 3-seriata, ad 5 mm. longa, intima basi obscure papillata, antheris luteis; glandulae inconspicuae crenulatae; ovarii lobi stellate patentes, obtuse compressi, glandulas attingentes; stigmata 5, subulata, 2.5 mm. longa cum cauda 1.25 mm. longa.

Cape Province: in dit. Middelburg; Lootsberg, *H. H. Bolus* 17. Fl. in hort. Sept. 1927. Bolus Herb. 27821.

Delosperma cloeteae Lavis sp. nov. (*Angustifolia*).—Rami 7 visi, glabri, laxe ramulosi, flexuosi, ad 18 cm. longi, ad 4 mm. diam., internodiis 1—3.5 cm. longis; ramuli ultimi floriferi 2—5 cm. longi; folia erecta vel ascendentia vel rare patentia, supra linearia acuminata, lateraliter visa prope apicem angustata, dorso subobtusum, viridia, 2—4.2 cm. longa, 4 mm. lata diametroque, matura brevissime vaginata; flores 1.8 cm. diam., singuli vel 3-nati vel demum 2-ternati cymamque densam formantes; receptaculum saepius semiglobosum, ca. 4.5 mm. longum diametroque; sepala 5, acuta vel acuminata, valde inaequalia, extima ad 1.7 cm., cum aetate ad 2 cm., accrescentia, basi 4 mm. lata, interiora marginata, 4—6 mm. longa, basi 2—4.5 mm. lata; petala 2-seriata, e supra medium inferne angustata, apice rotundo, roseo purpurea, ad 8 mm. longa, ad 1.5 mm. lata; staminodia petaloidea, ad stamina adpressa eaque leviter superantia, rosea, 3.5—4 mm. longa; filamenta 3-seriata, rosea, 2—3 mm. longa, in medio vel parum supra papillata, antheris pollineque luteis; glandulae approximatae crenulatae; ovarii lobi erecti, obtuse compressi, glandulas non attingentes; stigmata 5, subulata, 1.5 mm. longa, cauda brevissima.

Cape Province: in dit. Fort Beaufort; Kroomie, *Miss F. Cloete*. NBG 1654/29. Fl. Jan. 1933.

Delosperma truteri Lavis sp. nov. (*Planifolia*—*Glabra*).—Planta glaberrima; rami decumbentes lignosi, ad 17 cm. longi, internodiis 1—4.5 cm. longis, ad 3 mm. diam., vel plantae cultae compactae vel interdum caespitosae; folia ascendentia vel patentia vel reflexa, supra ovalia vel ovata vel oblonga, acuta, levia polita, viridia vel interdum sordide purpurea, 1.2—2.5 cm. longa, 7—13 mm. lata, ad 8 mm. diam.; flores solitarii, subsessiles vel pedunculi ad 5 mm., fructiferi ad 1.5 cm., longi; receptaculum obconicum, ad 4 mm. longum, ad 7

mm. diam.; sepala 5 extima folia simulantia, 8—10 mm. longa, ad 4 mm. diam., interiora mucronata marginata, 2—4 mm. longa, vel in flore altero extima 8 mm., interiora 4—6 mm., longa; petala ca. 3-seriata, e parum infra medium inferne angustata, obtusa alba nitentia, 4—15 mm. longa, ad 1.75 mm. lata; staminodia ad stamina adpressa eaque leviter excedentia; filamenta 3-seriata, epapillata, antheris pollineque primum luteis; glandulae subdistantes crenulatae; ovarii lobi erecti, obtuse compressi, ad 2 mm. elevati; stigmata 5, anguste subulata, ad 2.5 mm. longa cum cauda 0.75 mm. longa; capsula infra obconica 5—6 mm. longa, 7 mm., expansa, 12 mm., diam., supra ad 3 mm. elevata, suturis compressis.

Cape Province: in dit. Somerset East; "Oudekraal (farm adjoining Brakfontein), growing on krantzies in the foothills of the Zuurburg," J. Truter, P. A. B. van Breda 1707. Fl. Veld Reserve, Worcester, Jun. 1962 et 1966.

Delosperma deleeuwiae Lavis sp. nov. (*Planifolia*—*Glabra*).—Plantae cultae 3 visae, caespitosae, ad 4 cm. diam.; rami primarii ad 3.8 cm. longi, ad 6 mm. diam.; folia ascendentia vel demum patentia, supra oblonga plana, prope basim leviter angustata, concava, dorso rotundo, papillata, papillis setiferis, setis papillas aequantibus, 1.2—2.2 cm. longa, medio 1.1 cm. lato et 5 mm. diam.; flores singuli, 4 cm. diam., pedunculo hispidum, ad 5 mm. longo; receptaculum subovale hispidum, 7 mm. longum, 5 mm. diam.; sepala 5, subaequilonga obtusa, ad 6 mm. longa, basi ad 4 mm. lata, vel extima ad 8 mm. longa, 3—4 mm. lata; petala ca. 7—8-seriata, vel intima staminodia simulantia, sed non ad stamina adpressa, acuta, pallide rosea, 1—2 cm. longa, 1 mm. lata, exteriora e parum supra medium inferne angustata, obtusa vel emarginata, purpureo rosea, ad 2 cm. longa, ad 2 mm. lata; filamenta 3—4-seriata, 2—4 mm. longa, intima infra medium papillata, antheris pollineque luteis; glandulae approximatae inconspicuae brunneae; ovarium supra concavum; stigmata 5, anguste subulata, 2 mm. longa, brevissime caudata.

Orange Free State: Clarens; Mrs. de Leeuw. NBG 1882/26. Fl. Jan.—Mart. 1932—1933.

Delosperma suttoniae Lavis sp. nov. (*Planifolia*—*Glabra*).—Plantae florentes cultae 5 visae, 2—4.2 cm. altae, vel demum ramo ad 8 cm. longo producto; radix tuberosa globosa, 3 cm. diam., prope apicem tubercula crebra globosa, ad 7 mm. diam., radícula fibrosa ornata, ferens; rami primarii ad 6 mm. diam.; folia patentia crebra variabilia, lanceolata acuta vel acuminata, aut ovata obtusa vel rarissime oblonga, prope basim apicemque leviter angustata, glabra, minute punctata, sordide viridia, carina ad lineam reducta, 3—6 cm. longa, 1—1.7 cm. lata; flores sessiles vel brevissime pedunculati, pedunculis hirsutis, 4—5 cm. diam.; receptaculum obconicum, parce hispidum, setis patentibus, 7 mm. longum, 12 mm. diam., prope basim apicemque leviter angustata; sepala

5—7, acuta vel obtusa, punctata, extima 8—10 mm. longa, basi 3—4 mm. lata, interiora marginata, 5—6 mm. longa, basi 3—4 mm. lata; petala 3-seriata, e supra medium inferne angustata, subobtusa vel emarginata, rosea, exteriora inferne saturatiore vittata, ad 2·2 cm. longa, ad 2 mm. lata; staminodia inferne ad stamina adpressa eaque bene excedentia, superne valde recurva; filamenta 3-seriata, ad 7 mm. longa, intima prope medium papillata, antheris pollineque pallidis; glandulae 5—7, conspicuae approximatae crenulatae; ovarii lobi stellate patentes, glandulas attingentes, obtuse compressi, ad 1·5 elevati; stigmata 5—7, subulata, ad apicem dense papillata; capsula infra semiglobosa hispida, 3—5 mm. longa, 7 mm., expansa, 15 mm., diam., supra per 5 mm. elevata, suturis erectis, valde compressis.

Natal: Ladysmith. "Altitude ca. 3,824 ft.", *Miss Sutton*. NBG 2676/30. Fl. Mart. 1931.

Delosperma peersii Lavis sp. nov. (*Cymosa*—*Frutescentia*).—Planta 1 visa, sat rigida, glabra, ca. 24 cm. alta; rami ramulique saepius ascendentes, superne suberecti, prope apicem rubri, ad 17·5 cm. longi, internodiis 2—10 mm. longis, 1·5—5 mm. diam., vel ultimi floriferi stricti, 5·5 cm. longi, internodiis 4—8 mm. longis; folia ascendentia vel fere patentia, supra plana, dorso rotundo, minute mucronata, mucrone leviter recurvo, rubro, 5—14 mm. longa, ad 3 mm. lata, 2—4 mm. diam.; flores 1—3-nati, 2 cm. diam.; pedunculi 5—8 mm. longi; receptaculum globose obconicum, ad 5 mm. longum diametroque, prope medium leviter constrictum; sepala 5, extima obtusa, fere ad 5 mm. longa, basi 2 mm. lata, interiora acuta vel subacuminata, late marginata, 1·5—2 mm. longi, basi ad 1·5 mm. lata; petala 1—2-seriata, bene e supra medium inferne angustata, apice rotundo, rosea, prope basim pallida, 9 mm. longa, 1 mm. lata vel parum ultra; staminodia prope apicem leviter recurva, stamina aequantia; stamina 2-seriata, interiora parum infra medium papillata; glandulae arcte approximatae; ovarii lobi erecti, vix compressi, apice rotundo, fere ad 1·5 mm. elevati; stigmata 5, anguste subulata, longe attenuata, 2—5 mm. longa; capsulae 2, senectissimae visae, infra obconicae, 4—5 mm. longae, 5 mm., expansae, 8 mm. diam., loculis leviter alatis.

Cape Province: in dit. Willowmore; Vondeling, *V. S. Peers*. NBG 971/30. Fl. Apr. 1933.

NOTE:—The type specimens of all new species described in this paper are in the Bolus Herbarium, University of Cape Town.

(*To be continued*)